

**RAW SEQUENCE LISTING** DATE: 09/09/2004
PATENT APPLICATION: **US/10/506,549** TIME: 16:15:50

Input Set : **A:\SEQLIST_1361US.txt**
Output Set: **N:\CRF4\09092004\J506549.raw**

<110> APPLICANT: APPLERA CORPORATION

<120> TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS, AND USES THEREOF

<130> FILE REFERENCE: CL001361-US

C--> **<140> CURRENT APPLICATION NUMBER: US/10/506,549**

C--> **<141> CURRENT FILING DATE: 2004-09-03**

<150> PRIOR APPLICATION NUMBER: 60/361,343

<151> PRIOR FILING DATE: 2002-03-05

<160> NUMBER OF SEQ ID NOS: 4

<170> SOFTWARE: FastSEQ for Windows Version 4.0



<210> SEQ ID NO: 1

<211> LENGTH: 2679

<212> TYPE: DNA

<213> ORGANISM: Homo sapiens

<400> SEQUENCE: 1

atgtcttcca agaagaatag aaagcggttg aaccaaagcg cggaaaatgg ttcgtccttg 60
ccctctgctg cttcctcttg tgcggaggca cgggctcctt ctgctggatc agacttcgcg 120
gcaacctccg ggactctgac ggtgaccaac ttattagaaa aggatgacaa aattcctaaa 180
acattccaga attcccttat tcatcttgga ctcaacacta tgaagtctgc aaatatatgt 240
ataggtcgac cagtgttgct tactagtttg aacggaaagc aagaggtgta tacagcctgg 300
cctatggcag gatttcctgg aggcaaggtc ggcctgagtg aaatggcaca gaaaaatgtg 360
ggtgtgaggc ctggtgatgc catccaggtc cagcctcttg tgggtgctgt gctacaggct 420
gaggaaatgg atgtggcact gagtgacaaa gatatggaaa ttaatgaaga agaactgact 480
ggttgtatcc tgagaaaact agatggcaag attgttttac caggcaactt tctgtattgt 540
acattctatg gacgaccgta caagctgcaa gtattgcgag tgaaaggggc agatggcatg 600
atattgggag ggcctcagag tgactctgac actgatgccc aaagaatggc ctttgaacag 660
tccagcatgg aaaccagtag cctggagtta tccttacagc taagccagtt agatctggag 720
gatacccaga tcccaacatc aagaagtact ccttataaac caattgatga cagaattaca 780
aataaagcca gtgatgtttt gctggatgtt acacagagcc ctggagatgg cagtggactt 840
atgctagagg aagtcacagg tcttaaatgt aattttgaat ctgccagaga aggaaatgag 900
caacttactg aagaagagag actgctaaag ttcagcatag gagcaaagtg caatactgat 960
acttttatt ttatttcttc aacaacaaga gtcaatttta cagagattga taaaaattca 1020
aaagagcaag acaaccaatt caaagtaact tatgacatga taggaggatt aagtagccag 1080
ctgaaagcaa ttagagaaat aattgaattg cccctcaaac agcctgagct tttcaagagt 1140
tatggaattc ctgcccctag aggagtgtta ctttatggtc ctccaggtac tggaaaaaca 1200
atgatcgcca gggctgttgc taatgaagtt ggagcctatg tttctgtaat taatggtcct 1260
gaaattataa gcaaattcta tggtgagact gaagcaaagt tacgtcagat atttgctgaa 1320
gccactctac gacacccatc aattattttt attgatgagc tggatgcact ttgtccgaaa 1380
agagaggggg cccagaatga agtggaaaaa agagttgtgg cttcactctt aacactgatg 1440
gatggcattg gttcagaagt aagtgaagga caagtgttgg ttcttggggc cacaaatcgc 1500
cctcatgcct tggatgctgc tctccgaaga cctgggcgat ttgataaaga gattgagatt 1560
ggagttccca atgctcagga ccggctagat attctccaga aactgcttcg aagggtaccc 1620

**RAW SEQUENCE LISTING** DATE: 09/09/2004
PATENT APPLICATION: **US/10/506,549** TIME: 16:15:50

Input Set : **A:\SEQLIST_1361US.txt**
Output Set: **N:\CRF4\09092004\J506549.raw**

```
55 catttgctca ctgaggctga gctgctgcag ctggcaaata gtgctcatgg atacgttgga 1680
56 gcagacttga aagtcttgtg taatgaagca ggtctctgtg ccttgcggag aatcctgaaa 1740
57 aaacagccta acctccctga tgtcaaggtg gctggactgg tgaagattac tctgaaggat 1800
58 ttcttgcagg caatgaatga tatcagaccc agtgccatga gggaaatagc aattgatgtc 1860
59 ccaaatgtat cctggtcaga tataggagga ctggaaagta tcaaactgaa gttggaacag 1920
60 gctgtggaat ggcccttaaa acatccagag tctttcattc gaatgggtat tcagccacct 1980
61 aaaggagttc ttctctatgg gccacctggg tgctctaaaa caatgatagc aaaggctttg 2040
62 gccaatgaga gtggactgaa ttttctagct ataaaggggc ctgaattaat gaataaatat 2100
63 gttggtgaat ctgaaagagc agttagagag accttccgaa aagcaagagc agtggcgcct 2160
64 tccattattt tctttgatga actggatgcc ttagcagttg aaaggggcag ttctttaggt 2220
65 gctgggaatg tagccgatcg tgttttggct cagctcttaa cagaaatgga tgggattgaa 2280
66 cagctaaagg atgtgaccat tttggcagct actaaccgtc cagataggat agacaaggct 2340
67 ttgatgcggc ctggaagaat tgatagaatc atctatgtgc ctttaccgga tgcagcaaca 2400
68 agaagggaaa tatttaagct gcagtttcac tccatgcctg tcagtaatga agttgacctg 2460
69 gatgaactca tccttcaaac cgacgcatac tcaggagcag agattgtagc tgtctgcaga 2520
70 gaggcagctc ttctggctct ggaagaagac attcaagcca atctcatcat gaaaagacat 2580
71 ttcactcagg ccttgagcac tgtgacacct agaattcctg agtcattgag acgttttat 2640
72 gaagattatc aagagaagag tgggctgcat acactctga                       2679
74 <210> SEQ ID NO: 2
75 <211> LENGTH: 892
76 <212> TYPE: PRT
77 <213> ORGANISM: Homo sapiens
79 <400> SEQUENCE: 2
80 Met Ser Ser Lys Lys Asn Arg Lys Arg Leu Asn Gln Ser Ala Glu Asn
81  1               5                  10                  15
82 Gly Ser Ser Leu Pro Ser Ala Ala Ser Ser Cys Ala Glu Ala Arg Ala
83             20                  25                  30
84 Pro Ser Ala Gly Ser Asp Phe Ala Ala Thr Ser Gly Thr Leu Thr Val
85         35                  40                  45
86 Thr Asn Leu Leu Glu Lys Asp Asp Lys Ile Pro Lys Thr Phe Gln Asn
87     50                  55                  60
88 Ser Leu Ile His Leu Gly Leu Asn Thr Met Lys Ser Ala Asn Ile Cys
89 65                  70                  75                  80
90 Ile Gly Arg Pro Val Leu Leu Thr Ser Leu Asn Gly Lys Gln Glu Val
91                 85                  90                  95
92 Tyr Thr Ala Trp Pro Met Ala Gly Phe Pro Gly Gly Lys Val Gly Leu
93             100                 105                 110
94 Ser Glu Met Ala Gln Lys Asn Val Gly Val Arg Pro Gly Asp Ala Ile
95         115                 120                 125
96 Gln Val Gln Pro Leu Val Gly Ala Val Leu Gln Ala Glu Glu Met Asp
97     130                 135                 140
98 Val Ala Leu Ser Asp Lys Asp Met Glu Ile Asn Glu Glu Glu Leu Thr
99 145                 150                 155                 160
100 Gly Cys Ile Leu Arg Lys Leu Asp Gly Lys Ile Val Leu Pro Gly Asn
101                165                 170                 175
102 Phe Leu Tyr Cys Thr Phe Tyr Gly Arg Pro Tyr Lys Leu Gln Val Leu
103             180                 185                 190
104 Arg Val Lys Gly Ala Asp Gly Met Ile Leu Gly Gly Pro Gln Ser Asp
105         195                 200                 205
```

RAW SEQUENCE LISTING DATE: 09/09/2004
PATENT APPLICATION: US/10/506,549 TIME: 16:15:50

Input Set : A:\SEQLIST_1361US.txt
Output Set: N:\CRF4\09092004\J506549.raw

```
106 Ser Asp Thr Asp Ala Gln Arg Met Ala Phe Glu Gln Ser Ser Met Glu
107     210                 215                 220
108 Thr Ser Ser Leu Glu Leu Ser Leu Gln Leu Ser Gln Leu Asp Leu Glu
109 225                 230                 235                 240
110 Asp Thr Gln Ile Pro Thr Ser Arg Ser Thr Pro Tyr Lys Pro Ile Asp
111                 245                 250                 255
112 Asp Arg Ile Thr Asn Lys Ala Ser Asp Val Leu Leu Asp Val Thr Gln
113             260                 265                 270
114 Ser Pro Gly Asp Gly Ser Gly Leu Met Leu Glu Glu Val Thr Gly Leu
115         275                 280                 285
116 Lys Cys Asn Phe Glu Ser Ala Arg Glu Gly Asn Glu Gln Leu Thr Glu
117     290                 295                 300
118 Glu Glu Arg Leu Leu Lys Phe Ser Ile Gly Ala Lys Cys Asn Thr Asp
119 305                 310                 315                 320
120 Thr Phe Tyr Phe Ile Ser Ser Thr Thr Arg Val Asn Phe Thr Glu Ile
121                 325                 330                 335
122 Asp Lys Asn Ser Lys Glu Gln Asp Asn Gln Phe Lys Val Thr Tyr Asp
123             340                 345                 350
124 Met Ile Gly Gly Leu Ser Ser Gln Leu Lys Ala Ile Arg Glu Ile Ile
125         355                 360                 365
126 Glu Leu Pro Leu Lys Gln Pro Glu Leu Phe Lys Ser Tyr Gly Ile Pro
127     370                 375                 380
128 Ala Pro Arg Gly Val Leu Leu Tyr Gly Pro Pro Gly Thr Gly Lys Thr
129 385                 390                 395                 400
130 Met Ile Ala Arg Ala Val Ala Asn Glu Val Gly Ala Tyr Val Ser Val
131                 405                 410                 415
132 Ile Asn Gly Pro Glu Ile Ile Ser Lys Phe Tyr Gly Glu Thr Glu Ala
133             420                 425                 430
134 Lys Leu Arg Gln Ile Phe Ala Glu Ala Thr Leu Arg His Pro Ser Ile
135         435                 440                 445
136 Ile Phe Ile Asp Glu Leu Asp Ala Leu Cys Pro Lys Arg Glu Gly Ala
137     450                 455                 460
138 Gln Asn Glu Val Glu Lys Arg Val Val Ala Ser Leu Leu Thr Leu Met
139 465                 470                 475                 480
140 Asp Gly Ile Gly Ser Glu Val Ser Glu Gly Gln Val Leu Val Leu Gly
141                 485                 490                 495
142 Ala Thr Asn Arg Pro His Ala Leu Asp Ala Ala Leu Arg Arg Pro Gly
143             500                 505                 510
144 Arg Phe Asp Lys Glu Ile Glu Ile Gly Val Pro Asn Ala Gln Asp Arg
145         515                 520                 525
146 Leu Asp Ile Leu Gln Lys Leu Leu Arg Arg Val Pro His Leu Leu Thr
147     530                 535                 540
148 Glu Ala Glu Leu Leu Gln Leu Ala Asn Ser Ala His Gly Tyr Val Gly
149 545                 550                 555                 560
150 Ala Asp Leu Lys Val Leu Cys Asn Glu Ala Gly Leu Cys Ala Leu Arg
151                 565                 570                 575
152 Arg Ile Leu Lys Lys Gln Pro Asn Leu Pro Asp Val Lys Val Ala Gly
153             580                 585                 590
154 Leu Val Lys Ile Thr Leu Lys Asp Phe Leu Gln Ala Met Asn Asp Ile
```

RAW SEQUENCE LISTING DATE: 09/09/2004
PATENT APPLICATION: US/10/506,549 TIME: 16:15:50

Input Set : A:\SEQLIST_1361US.txt
Output Set: N:\CRF4\09092004\J506549.raw

```
155         595                 600                 605
156 Arg Pro Ser Ala Met Arg Glu Ile Ala Ile Asp Val Pro Asn Val Ser
157     610                 615                 620
158 Trp Ser Asp Ile Gly Gly Leu Glu Ser Ile Lys Leu Lys Leu Glu Gln
159 625                 630                 635                 640
160 Ala Val Glu Trp Pro Leu Lys His Pro Glu Ser Phe Ile Arg Met Gly
161                 645                 650                 655
162 Ile Gln Pro Pro Lys Gly Val Leu Leu Tyr Gly Pro Pro Gly Cys Ser
163             660                 665                 670
164 Lys Thr Met Ile Ala Lys Ala Leu Ala Asn Glu Ser Gly Leu Asn Phe
165         675                 680                 685
166 Leu Ala Ile Lys Gly Pro Glu Leu Met Asn Lys Tyr Val Gly Glu Ser
167     690                 695                 700
168 Glu Arg Ala Val Arg Glu Thr Phe Arg Lys Ala Arg Ala Val Ala Pro
169 705                 710                 715                 720
170 Ser Ile Ile Phe Phe Asp Glu Leu Asp Ala Leu Ala Val Glu Arg Gly
171                 725                 730                 735
172 Ser Ser Leu Gly Ala Gly Asn Val Ala Asp Arg Val Leu Ala Gln Leu
173             740                 745                 750
174 Leu Thr Glu Met Asp Gly Ile Glu Gln Leu Lys Asp Val Thr Ile Leu
175         755                 760                 765
176 Ala Ala Thr Asn Arg Pro Asp Arg Ile Asp Lys Ala Leu Met Arg Pro
177     770                 775                 780
178 Gly Arg Ile Asp Arg Ile Ile Tyr Val Pro Leu Pro Asp Ala Ala Thr
179 785                 790                 795                 800
180 Arg Arg Glu Ile Phe Lys Leu Gln Phe His Ser Met Pro Val Ser Asn
181                 805                 810                 815
182 Glu Val Asp Leu Asp Glu Leu Ile Leu Gln Thr Asp Ala Tyr Ser Gly
183             820                 825                 830
184 Ala Glu Ile Val Ala Val Cys Arg Glu Ala Ala Leu Leu Ala Leu Glu
185         835                 840                 845
186 Glu Asp Ile Gln Ala Asn Leu Ile Met Lys Arg His Phe Thr Gln Ala
187     850                 855                 860
188 Leu Ser Thr Val Thr Pro Arg Ile Pro Glu Ser Leu Arg Arg Phe Tyr
189 865                 870                 875                 880
190 Glu Asp Tyr Gln Glu Lys Ser Gly Leu His Thr Leu
191                 885                 890
194 <210> SEQ ID NO: 3
195 <211> LENGTH: 394191
196 <212> TYPE: DNA
197 <213> ORGANISM: Homo sapiens
199 <220> FEATURE:
200 <221> NAME/KEY: misc_feature
201 <222> LOCATION: (1)...(394191)
202 <223> OTHER INFORMATION: n = A,T,C or G
204 <400> SEQUENCE: 3
205 caagctttct tatcattggg ctcaaggttg aaagccagta aaaagtttc ttattgaaga 60
206 ctgaaaccac ccaccaccgt ccctggttaa tcataaaaga agcgttattc taaaaaactc 120
207 cagttctcgc tgagacagct gttgacccaa tttgtataca aatgtgacac tctgaacctc 180
```

RAW SEQUENCE LISTING DATE: 09/09/2004
PATENT APPLICATION: US/10/506,549 TIME: 16:15:50

Input Set : A:\SEQLIST_1361US.txt
Output Set: N:\CRF4\09092004\J506549.raw

208 tctggtttag tatttgatag cccaacaggg tgactatatt caataaagat tcaggctggg 240
209 tgcagtggct cctgcctgta atcccagcac tttgaggggc caaggcggga gaatcagttg 300
210 agcccgggag actgagacca gcctgggcaa cacagtgaga caccgtttct agaaaaaata 360
211 gaaaaaagcc agatgcgcgc ctgtagtcct agctacccag gaggctgagg tgggaggatt 420
212 gcttgagctc aggggttgga ggctgcagtg aaccctgatc ctaccactgc actctagcct 480
213 gggagacaga atgataccct ctctcaaaaa aaaaaaaaaa aaaaaaaaaa actgtacatt 540
214 taaaaataac taagagtaac tggattatgg ttgaatgctt gtggtgatga gtatctcatt 600
215 taccctgatg taattattac acatttatac ctctatcaaa atagctcata taccccataa 660
216 acatacacac ctactatgga cccacaaaaa ttaaaaataa aaaagaaaag cctctttggt 720
217 ccactcagtc caccacccgt attagaatgt aagagttttt ttccttggga aaagtgtccg 780
218 acagaaccaa ggctcggtaa aggatactaa taatgtaata atataatatt aacaaacatc 840
219 tactgagctt taaatacgtg gcaggcactg tgctgtgcac tttatgtgca ttatccaaat 900
220 taactctcag taattccagg agttcttatc accggggtct gtggaagagg aaatggtggt 960
221 ttacggcaat ttccgaatgt cgcacagtag aaagtggacc agcaaccagg gttgcagatc 1020
222 ccaaagtccg ggatcttcac catttcaccc aaccgcctta gagacctccc agcaaaaggt 1080
223 ctaagcacga atgctccaga aaacaggtcc aggtcacgcg tgccttctcc ctttccctct 1140
224 gggctcgaca gtggtgcaca gagcgactag ggagtggggg ccgcggttat ttcattagaa 1200
225 aagctctgga gccccgggag cccttcgtcc caggcgcact tgccctgcaa gcccttctgg 1260
226 aaggcggcag cgtccaggcg gtccagcgca tcgagccgcg ccaggcgcac cgagatgccc 1320
227 ccgaatctgt ccagctcgcc ctgcagatcg cacgctccaa ctggcggatt ccgcacgtaa 1380
228 ccctgtgcgc ccgaggccca gcggtaaccc gccgaaggcc cggggccgta ggttcgggca 1440
229 agcatcgcgc gccagcggcc ccagctcagc ggctgccgca tctccacgcc gcttaattcg 1500
230 tccgttgccc aaatgacccc tccgcgctcc agagcggaga tcgcggccgt acattttaga 1560
231 agagtgccat caataccctc agagttgagc tggggttacc actctgcaga gctatgccaa 1620
232 ggagaccgcg aagtggtcca ccagcccttc tcagcaattt gccccgctcc agttaagcgg 1680
233 ggaaaacctc ctcccccacc gccactcact tattttgttt ggtagtttaa ttcaacagac 1740
234 gttggtttag ggatggggaa gccgggagga gatgcaaaaa cgtcctgttt ttcaggaatt 1800
235 tacaatctaa gtggcagttc cgttcctgga acctatcttc tttcacagat gccgttacag 1860
236 ctgtttcaaa gactgctggt tttgaaaacg ctcagtccct cccaccacgc tgtgcactgc 1920
237 tgcgctccac tcaggggatt acggcgcagg ggcggaccct cgctgacttc tgccccggaa 1980
238 gtttttctct cagttgaagc gcgcacattg agtcggcttt tctactgctt cggctagggt 2040
239 accttgtgac catgtcttcc aagaagaata gaaagcggtt gaaccaaagc gcggaaaatg 2100
240 gttcgtcctt gccctctgct gcttcctctt gtgcggaggc acgggctcct tctgctggat 2160
241 cagacttcgc ggcaacctcc gggactctga cggtgaccaa cttattagaa aagggtaaag 2220
242 aattccgggt gggagactag aggccgaggg ggcgcaacct gaggggcggg agactcagtg 2280
243 atactgactt ggggtgcaga gacttttgaa agttgggcgt ggcatgggtc tgagagcggc 2340
244 acagaagcgt gtaagacttc tgtatgtaag aagcatgcaa acgtagccgc gcctgcactg 2400
245 gagaagttag gctgaaatgg tttatccgtg tccaaggttt ctcttttgta aattattttg 2460
246 aatttttaag ttgcacttga aacgctttgt ctcatttaac attaacgaca catttaattg 2520
247 caaaattgtt cataactagc gaacatggga tacttatcct aaaaaactaa ataaccaatt 2580
248 cagtaaaaat gtggatcact ctgcctttag gagtgatgat agcattttct tccagtacta 2640
249 cgcaggttat gatatttaat aactgctagt aactgcacac tagtgttagc agtatatata 2700
250 gctcatctaa tttctacaga agccgtgacc gatgggtata gtaatgacag ttttatagag 2760
251 ggaggaaagt taacgtgatt ccattcaggc tacacaggtg ctaagtggca gagccgatat 2820
252 ttgagtccag atgtgtttga cttaaaagcc attcctagat gacagctcct ttgatttggg 2880
253 agaacgtatt tatactgaaa agtcttataa attgaattaa aaattgaaaa tttatatttg 2940
254 atgtgtaata gctttgaaaa atggaccaga ctagtggcaa aaacttttat gtctaatcag 3000
255 accttaaaga caatttagag ttcacatggt attttcactc tgccttaggt atcagaggac 3060
256 aacttgttct gtcctgaagg ttcaacttgt ttttgaacta gatccttccc attgacatgt 3120

**RAW SEQUENCE LISTING ERROR SUMMARY** DATE: 09/09/2004
PATENT APPLICATION: **US/10/506,549** TIME: 16:15:51

Input Set : **A:\SEQLIST_1361US.txt**
Output Set: **N:\CRF4\09092004\J506549.raw**

**Please Note:**
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.**

Seq#:3; N Pos. 10891,10892,10893,10894,10895,10896,10897,10898,10899,10900
Seq#:3; N Pos. 10901,10902,10903,10904,10905,10906,10907,10908,10909,10910
Seq#:3; N Pos. 10911,10912,10913,10914,10915,10916,10917,10918,10919,10920
Seq#:3; N Pos. 10921,10922,10923,10924,10925,10926,10927,10928,10929,10930
Seq#:3; N Pos. 10931,10932,10933,10934,10935,10936,10937,10938,10939,10940
Seq#:3; N Pos. 10941,10942,10943,10944,10945,10946,10947,10948,10949,10950
Seq#:3; N Pos. 10951,10952,10953,10954,10955,10956,10957,10958,10959,10960
Seq#:3; N Pos. 10961,10962,10963,10964,10965,10966,10967,10968,10969,10970
Seq#:3; N Pos. 10971,10972,10973,10974,10975,10976,10977,10978,10979,10980
Seq#:3; N Pos. 10981,10982,10983,10984,10985,10986,10987,10988,10989,10990
Seq#:3; N Pos. 10991,10992,10993,10994,10995,10996,10997,10998,10999,11000
Seq#:3; N Pos. 11001,11002,11003,11004,11005,11006,11007,11008,11009,11010
Seq#:3; N Pos. 11011,11012,11013,11014,11015,11016,11017,11018,11019,11020
Seq#:3; N Pos. 11021,11022,11023,11024,11025,11026,11027,11028,11029,11030
Seq#:3; N Pos. 11031,11032,11033,11034,11035,11036,11037,11038,11039,11040
Seq#:3; N Pos. 11041,11042,11043,11044,11045,11046,11047,11048,11049,11050
Seq#:3; N Pos. 11051,11052,11053,11054,11055,11056,11057,11058,11059,11060
Seq#:3; N Pos. 11061,11062,11063,11064,11065,11066,11067,11068,11069,11070
Seq#:3; N Pos. 11071,11072,11073,11074,11075,11076,11077,11078,11079,11080
Seq#:3; N Pos. 11081,11082,11083,11084,11085,11086,11087,11088,11089,11090
Seq#:3; N Pos. 11091,11092,11093,11094,11095,11096,11097,11098,11099,11100
Seq#:3; N Pos. 11101,11102,11103,11104,11105,11106,11107,11108,11109,11110
Seq#:3; N Pos. 11111,11112,11113,11114,11115,11116,11117,11118
Seq#:3; N Pos. 67140,67141,67142,67143,67144,67145,67146,67147,67148,67149
Seq#:3; N Pos. 67150,67151,67152,67153,67154,67155,67156,67157,67158,67159
Seq#:3; N Pos. 77171,77172,77173,77174,77175,77176,77177,77178,77179,77180
Seq#:3; N Pos. 77181,77182,77183,77184,77185,77186,77187,77188,77189,77190
Seq#:3; N Pos. 77191,77192,77193,77194,77195,77196,77197,77198,77199,77200
Seq#:3; N Pos. 77201,77202,77203,77204,77205,77206,77207,77208,77209,77210
Seq#:3; N Pos. 77211,77212,77213,77214,77215,77216,77217,77218,77219,77220
Seq#:3; N Pos. 77221,77222,77223,77224,77225,77226,77227,77228,77229,77230
Seq#:3; N Pos. 77231,77232,77233,77234,77235,77236,77237,77238,77239,77240
Seq#:3; N Pos. 77241,77242,77243,77244,77245,77246,77247,77248,77249,77250
Seq#:3; N Pos. 77251,77252,77253,77254,77255,77256,77257,77258,77259,77260
Seq#:3; N Pos. 77261,77262,77263,77264,77265,77266,77267,77268,77269,77270
Seq#:3; N Pos. 77271,77272,77273,77274,77275,77276,77277,77278,77279,77280
Seq#:3; N Pos. 77281,77282,77283,77284,77285,77286,77287,77288,77289,77290
Seq#:3; N Pos. 77291,77292,77293,77294,77295,77296,77297,77298,77299,77300
Seq#:3; N Pos. 77301,77302,77303,77304,77305,77306,77307,77308,77309,77310
Seq#:3; N Pos. 77311,77312,77313,77314,77315,77316,77317,77318,77319,77320
Seq#:3; N Pos. 77321,77322,77323,77324,77325,77326,77327,77328,77329,77330
Seq#:3; N Pos. 77331,77332,77333,77334,77335,77336,77337,77338,77339,77340
Seq#:3; N Pos. 77341,77342,77343,77344,77345,77346,77347,77348,77349,77350
Seq#:3; N Pos. 77351,77352,77353,77354,77355,77356,77357,77358,77359,77360

**RAW SEQUENCE LISTING ERROR SUMMARY** DATE: 09/09/2004
PATENT APPLICATION: **US/10/506,549** TIME: 16:15:51

Input Set : **A:\SEQLIST_1361US.txt**
Output Set: **N:\CRF4\09092004\J506549.raw**

Seq#:3; N Pos. 77361,77362,77363,77364,77365,77366,77367,77368,77369,77370
Seq#:3; N Pos. 77371,77372,77373,77374,77375,77376,77377,77378,77379,77380
Seq#:3; N Pos. 77381,77382,77383,77384,77385,77386,77387,77388,77389,77390
Seq#:3; N Pos. 77391,77392,77393,77394,77395,77396,77397,77398,77399,77400
Seq#:3; N Pos. 77401,77402,77403,77404,77405,77406,77407,77408,77409,77410
Seq#:3; N Pos. 77411,77412,77413,77414,77415,77416,77417,77418,77419,77420
Seq#:3; N Pos. 77421,77422,77423,77424,77425,77426,77427,77428,77429,77430

**VERIFICATION SUMMARY** DATE: 09/09/2004
PATENT APPLICATION: **US/10/506,549** TIME: 16:15:51

Input Set : **A:\SEQLIST_1361US.txt**
Output Set: **N:\CRF4\09092004\J506549.raw**

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:10860
M:341 Repeated in SeqNo=3